# USCMS Engineer Status Report for June 2004

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# 1    Work Performed This Month

*** DAR development and support.

We have had several production use-cases when we needed to chain applications based on different versions. For example, to get an advantage of advanced features available in new POOL release, or use new COBRA functionality. This mix-match possibility was not foreseen in the job managing tools, or in the RefDB interface. We discussed this with Tony et Al (the principal possibility was already tested during the DC04. The proposed solution was to introduce additional step in production tools. Provided DARballs for this preparation step.

*** New features in DAR

Vincenzo asked if we could include "scram tool info" command in DAR. After discussion with Vincenzo, Tony, and Stephan, DAR was extended to emulate the output of several scram info commands.

Implemented DAR metadata: they are included into DARball, and can be checked without installing a DARball. Public DAR installations at CERN and FNAL have been updated accordingly. Instructions on how to use new DAR features will be presented on the CMS Production meeting.

Created and distributed new DARballs for various uses (production, new ORCA for running DST files at Florida, COBRA DARBall, POOL darballs). Instructed interested users how to create and use DARballs.

*** LPC

Participated in weekly LPC code management group discussion of use-cases and requirements for local software development at Fermilab. Provided technical details about role of AFS, CMS build system (SCRAM), how things

are currently done in CMS: software installation, distribution, support, development, tests, cvs access, documentation, automated tools and services, etc. Worked on the use-cases, corrections, additions to the document.

*** Misc

Helped Anzar in investigating the possibilities for packaging POOL/FileCAtalog python interface, discussed solutions with Zhen Xie (file catalog developer).

Provided public kserver_init script to enable remote write access to the CVS repository at CERN. Ensured proper kdc configuration on the UAF (with local sysadmins) needed for access to CERN repository, checked that is does not reduce the overall performance.

Helping users to overcome build problems with SCRAM.

Administering USCMS CVS repository (new modules, user access control rules).

Get access to a given node on the UAF (for troubleshooting problems specific to a particular node).

Started working with summer student Enrico Ng on a new version of automatically updated software releases web pages (projectswatch system).

*** DPE

Contribution into MCPS design document (software packaging related part).

Packaging clarens into DPE.

*** Local CMS software installations at Fermilab

Request to XCMSi developers to fix some CMKIN environment related problems. (now fixed).

Installed OSCAR_3_2_4 release.

Support for FAMOS project at FNAL. Installed from sources and tested on the UAF latest pre-release FAMOS_0_9_0_pre2.

# 2   Status of Deliverables

Software installation are available at FNAL locally. DAR distributions for production are provided, new features implemented. Preparations for next DPE release are in progress. First draft of MCPS paper contribution provided.

# 3   Plans For Next Month

Work with summer student on "projects watch" re-implementation: avoid using javascript, which does not scale. New features: show release configuration information. Software testing. Continue working on LPC, MCPS, DAR projects, support software installations.

# 4   Longer Term Plans

Work on DAR-2, finilize new version of projectwatch, test, and eventually deploy it on teh uscms web pages. Reorganiza the afs volumes (get extra space, get rid of old RH6 releases, shorten th path).

# 5   Resources Needed

Additional AFS volumes for new software releases at FNAL.

# 6   Links To Supporting Documentation

- http://www.uscms.org/scpages/subsystems/MCPS/docs/MCProcessingService.ps
- http://cdcvs0.fnal.gov/cgi-bin/public-cvs/cvsweb-public.cgi/Documents/goals.ps?cvsroot=lp
- http://www.uscms.org/scpages/cmssoftware/
- http://cmsdoc.cern.ch/cms/production/www/html/general/Production.html
- http://www.uscms.org/scpages/subsystems/gridinfo.html